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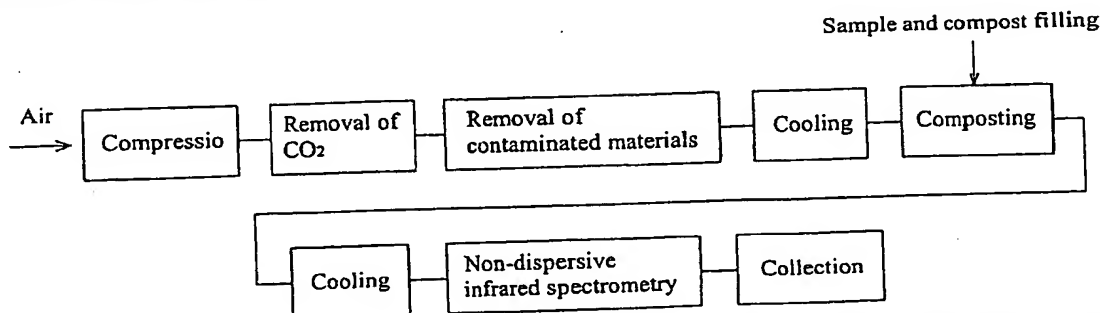
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(54) Title: **APPARATUS FOR MEASURING BIODEGRADABILITY OF SAMPLE USING NON-DISPERSIVE INFRARED SPECTROMETRY AND METHOD OF MEASURING THE SAME**



(57) Abstract: Disclosed is an apparatus for measuring biodegradability of a polymer sample by non-dispersive infrared spectrometry, including a compression pump (2), a first air controlling unit (4), carbon dioxide removing devices (6), a filter (8), a first cooling device (10), at least two second air controlling units (12), at least two second cooling devices (10'), at least two second air controlling units (14), at least two non-dispersive infrared gas analyzers (16) and collection units (18), connected in order, and a computer (34) connected to the first air controlling unit, the second air controlling units and the gas analyzers. Using the current apparatus, the amount of carbon dioxide is rapidly, quantitatively and reproducibly measured, and the apparatus is thus used for research and development procedures of biodegradable polymers.

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